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What is claimed is:

- A method of detecting a process failure in a distributed system, the method comprising
 steps of:
 - (1) measuring a first period of time between an instance a last heartbeat was received from a first process and a later instance in time;
 - (2) measuring a second period of time between an instance a last heartbeat was received from a second process and said later instance in time;
 - (3) comparing said first and second periods of time with a predetermined threshold; and
 - (4) determining whether a process failure occurred in response to said comparison in step (3).
 - The method of claim 1, wherein step (3) further comprises steps of: calculating a difference between said first period of time and said second period of time;
 and
 - comparing said difference to said predetermined threshold.
 - The method of claim 2, wherein step (4) further comprises steps of: detecting a failure of said second process in response to said difference exceeding said predetermined threshold.
- 1 4. The method of claim 1, wherein said steps are performed as computer-executable
- 2 instructions on a computer-readable medium.
- 1 5. The method of claim 1, wherein said distributed system includes one network.
- A method of detecting a network failure in a distributed system, the method comprising
 steps of:
- 3 (1) determining whether a heartbeat is received from at least one process in the
- 4 distributed system prior to an expiration of a heartbeat timeout; and

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- (2) detecting a failure of a network in said system in response to not receiving said heartbeat from said at least one process prior to said expiration of said heartbeat timeout.
- The method of claim 6, wherein said steps are performed as computer-executable instructions on a computer-readable medium.
- The method of claim 6, wherein said distributed system includes one network.
 - A distributed system including a plurality of hosts connected via a network, wherein each host executes a process in said distributed system, said system comprising:

a first host of said plurality of hosts executing a first process; wherein said first is operable to detect one of failure of a second process executing on second host and failure of said network based on a period of time to receive a heartbeat transmitted from at least one of said plurality of hosts.

10. The system of claim 9, further comprising:

a third host of said plurality of hosts executing a third process; wherein said first host is operable to measure a first period of time between an instance a last heartbeat was received from said third host on said network and a later instance in time and measure a second period of time between an instance a last heartbeat was received from said second host and said later instance in time:

said first host being further operable to compare said first and second periods of time
with a predetermined threshold, and detect a failure of said second process in response to said
comparison.

- 1 11. The system of claim 10, wherein said first host is further operable to calculate a
- 2 difference between said first period of time and said second period of time, and compare said
- 3 difference to said predetermined threshold.
- 1 12. The system of claim 11, wherein said first host is operable to detect said failure of said
- 2 second process in response to said difference exceeding said predetermined threshold.

- 1 13. The system of claim 12, wherein said first process is operable to remove said second
- 2 process from a view in response to detecting said failure of said second process.
- 1 14. The system of claim 9, wherein said first host is operable to determine whether a
 - heartbeat is received from at least one other host in said system prior to an expiration of a
- 3 heartbeat timeout.

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- 1 15. The system of claim 14, wherein said first host is further operable to detect said failure of
 - said network in response to not receiving a heartbeat from said at least one other host prior to
- 3 said expiration of said heartbeat timeout.